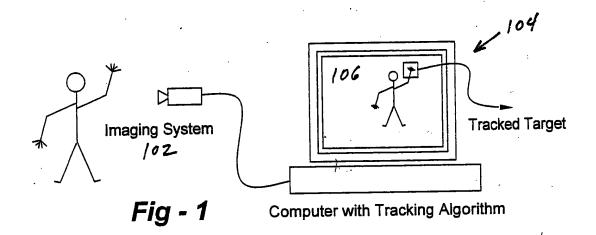


REPLACEMENT DRAWING SHEET Serial No. 10/004,058

Inventors: George V. Paul et al.



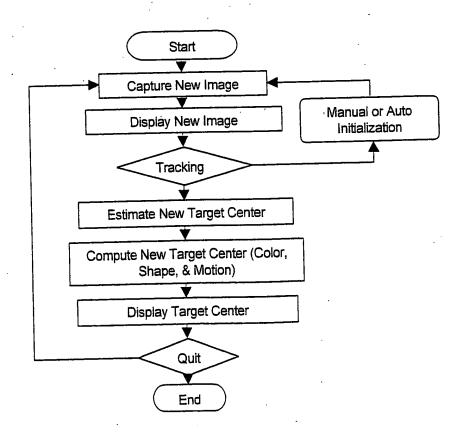


FIGURE 2



REPLACEMENT DRAWING SHEET Serial No. 10/004,058

Inventors: George V. Paul et al.

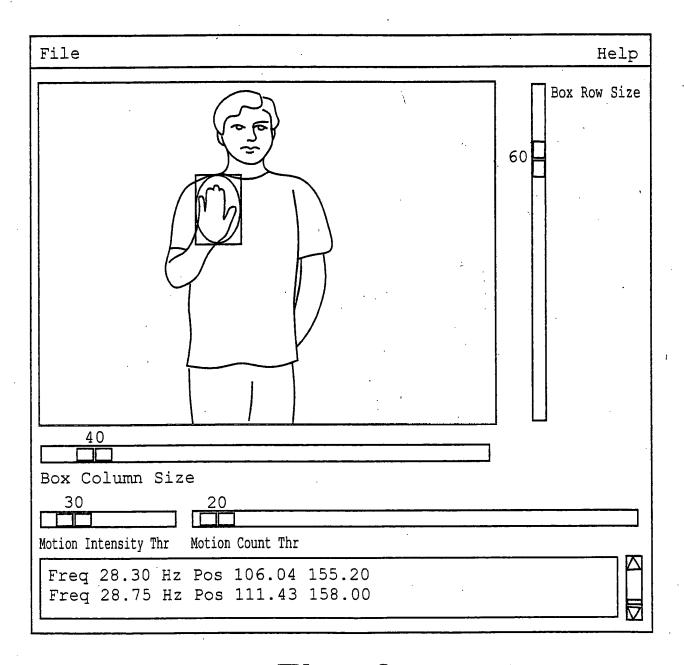


Fig - 3



REPLACEMENT DRAWING SHEET Serial No. 10/004,058 Inventors: George V. Paul et al.

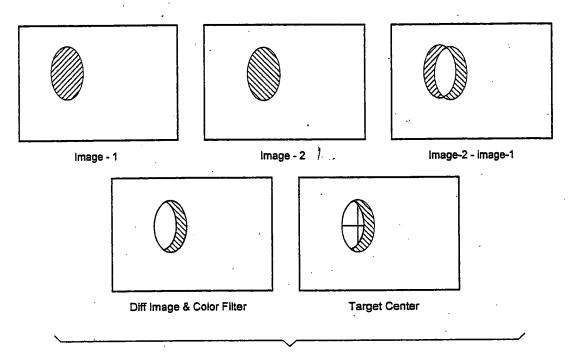


Fig - 4

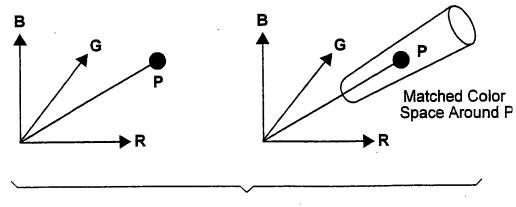


Fig - 5



REPLACEMENT DRAWING SHEET Serial No. 10/004,058

Inventors: George V. Paul et al.

```
Given new image and the estimated target center as rc, cc and old target shape
for i=rc-rs/2 to i=rc+rs/2
     for j=cc-cs/2 to j=cc+cs/2
         RGB = pixel(i,j)
         c = FindColorMatch(RGB)
         if c>0
             cr = c*i
             cc = c*i
             if this pixel lies on the previous shape template
                  sr = c*i
                  sc = c*i
                  s = c;
             else pixel shows movement
                  mr = c*i
                  mc = c*j
                  m = c;
             endif
             mark this pixel in the next shape template
             Nc = Nc+c
             Ns = Ns+s
             Nm = Nm + m
             unmark this pixel in the next shape template
         endif
     endfor
endfor
cr = cr/Nc, cc = cc/Nc
sr = or/Ns, sc = sc/Ns
mr = mr/Nm, mc = mc/Nm
compute new target center as a weighted average
newr = cr*cw + sr*sw + mr*mw
newc = cc*cw + sc*sw + mc*mw
velr = (newr-rc)/t
velc = (newc-cc)/t
```



REPLACEMENT DRÁWING SHEET Serial No. 10/004,058 Inventors: George V. Paul et al.

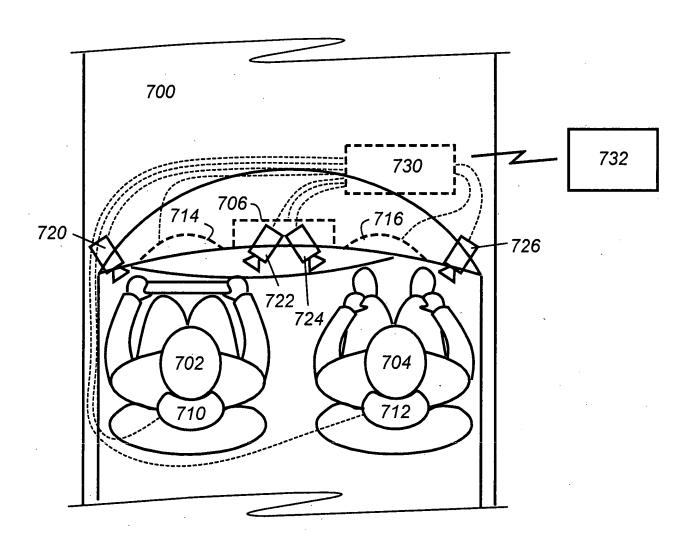


FIGURE 7